This listing of claims replaces all prior versions, and listings of claims in the instant application:

Listing of Claims:

1. (Currently Amended) A card device for communication with an electronic device, comprising:

a memory, on said card device ~~for~~ storing therein (1) an application program; (2) a security manager; and (3) a capabilities list associated with ~~an~~said application program, said capabilities list including information regarding whether access to one or more resources for use by said application program is permitted~~, and for storing said application program and a security manager~~; and

a processing unit, on said card device, for executing said application program and said security manager,

wherein upon said processing unit executing said application and said security manager, and when said executing application requests access to at least one of said one or more resources, said executing security manager ~~for~~ selectively ~~granting~~grants access to said at least one of said one or more resources for use by said executing application program based at least in part on said information in said capabilities list.

2. (Original) The card device of claim 1 wherein said one or more resources comprise at least one of data and functions.

3. (Original) The card device of claim 1 wherein said one or more resources comprise one or more resources external to said card device.

GUNNISON, McKAY & HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888

4. (Original) The card device of claim 3, further comprising at least one of:

terminal side resources; and

channels of a communications network.

5. (Original) The card device of claim 1 wherein said one or more resources comprise one or more resources owned by at least one of said application program and another entity.

6. (Currently Amended) The card device of claim 5 wherein said other entity comprises at least one of:

an operating system of said card device; and

another application program.

7. (Currently Amended) The card device of claim 1 wherein said information in said capabilities list comprises information regarding at least one of:

access rights; and

information required for access to a resource.

8. (Currently Amended) The card device of claim 1 wherein said capabilities list comprises ~~memory stores~~ a first capabilities list and said memory also stores a second capabilities list, said first capabilities list comprising a handle to link to said second capabilities list.

9. (Original) The card device of claim 8 wherein said second capabilities list is associated with one or more of other application programs.

10. (Original) The card device of claim 1 wherein said application program is for requesting access to a resource.

GUNNISON, McKAY & HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888

11. (Currently Amended) The card device of claim 1 wherein

said application program is for transmitting a resource access request to ~~a~~said security manager; and

said security manager is for transmitting a verify request to a verification program to examine said capabilities list to determine whether said application program is authorized to access said resource, and for performing or denying said requested action based at least in part on said examination.

12. (Original) The card device of claim 11 wherein said security manager comprises an application program interface (API).

13. (Original) The card device of claim 11 wherein said security manager is for obtaining information regarding said requesting application program through one of inquiring at a context originating the resource access request and a parameter provided with said resource access request.

14. (Original) The card device of claim 1, further comprising input/output means for receiving said capabilities list from at least one of a provider of said application program and an owner of said one or more resources.

15. (Original) The card device of claim 1 wherein said capabilities list and said application program constitute a load package received by said card device.

16. (Original) The card device of claim 1 wherein said device is configured to modify said capabilities list based at least in part on a subsequently received capabilities update list associated with said application program.

GUNNISON, McKAY & HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888

17. (Currently Amended) The card device of claim 1 wherein said card device is configured to delete said capabilities list or link and access rights upon receiving an instruction to delete said application program from the outside.

18. (Original) The card device of claim 1 wherein said capabilities list is encrypted; and

said processor is configured to decrypt said capabilities list.

19. (Original) The card device of claim 1 wherein said capabilities list is cryptographically signed by at least one of a provider of said application program and an owner of said one or more resources; and

said processor is configured to cryptographically authenticate said capabilities list.

20. (Original) The card device of claim 19 wherein said processor is further configured to cryptographically authenticate said capabilities list when said capabilities list is stored on said device.

21. (Original) The card device of claim 19 wherein said processor is further configured to cryptographically authenticate said capabilities list when said capabilities list is accessed, said capabilities list being successfully authenticated if a first fingerprint computed over said capabilities list upon storing capabilities list matches a second fingerprint computed over said capabilities list in response to a run-time request to use said capabilities list.

GUNNISON, McKAY & HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888

22. (Original) The card device of claim 1 wherein said application program comprises a plurality of modules.

23. (Original) The card device of claim 1 wherein said application program comprises a Java application program or a Java Card™ applet.

24. (Original) The card device of claim 1 wherein said capabilities list is embodied in a tag-length-value (TLV) structure.

25. (Currently Amended) A method for controlling a card device, the card device for communication with an electronic device, the method comprising:

storing, on said card device, an application program ~~on said card device~~;

storing, on said card device, a capabilities list associated with said application program ~~on said card device~~, said capabilities list comprising information regarding whether access to one or more resources for use by said application program is permitted; and

executing, on said card device, said application program and a security manager,

wherein upon said executing application requesting access to at least one of said one or more resources, said exeucting security manager ~~for~~ selectively grants~~granting~~ access to said at least one of said one or more resources for use by said application program based at least in part on said information in said capabilities list.

26. (Original) The method of claim 25 wherein said one or more resources comprise at least one of data and functions.

GUNNISON, McKAY & HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888

27. (Original) The method of claim 25 wherein said one or more resources comprise one or more resources external to said card device.

28. (Original) The method of claim 27 wherein said card device further comprises at least one of:

terminal side resources; and

channels of a communications network.

29. (Original) The method of claim 25 wherein said one or more resources comprise one or more resources owned by at least one of said application program and another entity.

30. (Original) The method of claim 29 wherein said other entity comprises at least one of:

an operating system of said card device; and

another application program.

31. (Currently Amended) The method of claim 25 wherein said information in said capabilities list comprises information regarding at least one of:

access rights; and

information required for access to a resource.

32. (Currently Amended) The method of claim 25 wherein ~~said information included in said memory stores~~ said capabilities list comprises a first capabilities list and said method further comprises:

storing, on said card device, a second capabilities list, said first capabilities list comprising a handle to link to said second capabilities list.

GUNNISON, McKAY & HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888

33. (Original) The card device of claim 32 wherein said second capabilities list is associated with one or more of other application programs.

34. (Original) The method of claim 25 wherein said executing further comprises said application program requesting access to a resource.

35. (Original) The method of claim 25 wherein said executing further comprises:

said application program transmitting a resource access request to said security manager; and

said security manager transmitting a verify request to a verification program to examine said capabilities list to determine whether said application program is authorized to access said resource, and performing or denying the requested action based at least in part on said examination.

36. (Original) The method of claim 35 wherein said security manager comprises an application program interface (API).

37. (Currently Amended) The method of claim 35 wherein said security manager obtains information regarding said requesting application program through ~~and~~at least one of inquiring at a context originating said resource access request, and a parameter provided with said resource access request.

38. (Original) The method of claim 25, further comprising receiving said capabilities list from at least one of a provider of said application program and an owner of said one or more resources.

GUNNISON, McKAY & HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888

39. (Original) The method of claim 25 wherein said capabilities list and said application program are comprised in a load package received by said card device.

40. (Original) The method of claim 25, further comprising modifying said capabilities list based at least in part on a subsequently received capabilities update list associated with said application program.

41. (Original) The method of claim 25, further comprising deleting said capabilities list or link and access rights upon receiving an instruction to delete said application program from the outside.

42. (Original) The method of claim 25 wherein
said capabilities list is encrypted; and
said method further comprises decrypting said capabilities list.

43. (Original) The method of claim 25 wherein
said capabilities list is cryptographically signed by at least one of a provider of said application program and an owner of said one or more resources; and
said method further comprises cryptographically authenticating said capabilities list.

44. (Original) The method of claim 25, further comprising cryptographically authenticating said capabilities list when said capabilities list is stored on said device.

45. (Original) The method of claim 25, further comprising cryptographically authenticating said capabilities list when said capabilities list is accessed, said capabilities list being successfully authenticated if a first fingerprint

GUNNISON, McKAY & HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888

computed over said capabilities list upon storing capabilities list matches a second fingerprint computed over said capabilities list in response to a run-time request to use said capabilities list.

46. (Original) The method of claim 25 wherein said application program comprises a plurality of modules

47. (Original) The method of claim 25 wherein said application program comprises a Java application program or a Java Card™ applet.

48. (Original) The method of claim 25 wherein said capabilities list is embodied in a tag-length-value (TLV) structure.

49. (Currently Amended) A program storage device readable by a machine, embodying a program of instructions executable by the machine to perform a method for controlling a card device, the card device for communication with an electronic device, the method comprising:

storing, on said card device, an application program ~~on said card device~~;

storing, on said card device, a capabilities list associated with said application program ~~on said card device~~, said capabilities list comprising information regarding whether access to one or more resources for use by said application program is permitted; and

executing, on said card device, said application program and a security manager,

wherein upon said executing application requesting access to at least one of said one or more resources, said exeucting security manager ~~for~~ selectively grants~~granting~~ access to said at least

GUNNISON, McKAY & HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888

one of said one or more resources for use by said application program based at least in part on said information in said capabilities list.

50. (Original) The program storage device of claim 49 wherein said one or more resources comprise at least one of data and functions.

51. (Original) The program storage device of claim 49 wherein said one or more resources comprise one or more resources external to said card device.

52. (Original) The program storage device of claim 51 wherein said card device further comprises at least one of:

terminal side resources; and

channels of a communications network.

53. (Original) The program storage device of claim 49 wherein said one or more resources comprise one or more resources owned by at least one of said application program and another entity.

54. (Original) The program storage device of claim 53 wherein said other entity comprises at least one of:

an operating system of said card device; and

another application program.

55. (Currently Amended) The program storage device of claim 49 wherein said information in said capabilities list comprises information regarding at least one of:

access rights; and

information required for access to a resource.

GUNNISON, McKAY & HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888

56. (Currently Amended) The program storage device of claim 49 wherein ~~said information included in said memory stores~~ said capabilities list comprises a first capabilities list and said method further comprises:

storing, on said card device, a second capabilities list, said first capabilities list comprising a handle to link to said second capabilities list.

57. (Original) The program storage device of claim 56 wherein said second capabilities list is associated with one or more of other application programs.

58. (Original) The program storage device of claim 49 wherein said executing further comprises said application program requesting access to a resource; and

59. (Original) The program storage device of claim 49 wherein said executing further comprises:

said application program transmitting a resource access request to said security manager; and

said security manager transmitting a verify request to a verification program to examine said capabilities list to determine whether said application program is authorized to access said resource, and performing or denying the requested action based at least in part on said examination.

60. (Original) The program storage device of claim 59 wherein said security manager comprises an application program interface (API).

61. (Currently Amended) The program storage device of claim 59 wherein said security manager obtains information regarding said requesting application program through ~~and~~at

GUNNISON, McKAY & HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888

least one of inquiring at a context originating said resource access request, and a parameter provided with said resource access request.

62. (Original) The program storage device of claim 49, said method further comprising receiving said capabilities list from at least one of a provider of said application program and an owner of said one or more resources.

63. (Original) The program storage device of claim 49 wherein said capabilities list and said application program are comprised in a load package received by said card device.

64. (Original) The program storage device of claim 49, said method further comprising modifying said capabilities list based at least in part on a subsequently received capabilities update list associated with said application program.

65. (Original) The program storage device of claim 49, said method further comprising deleting said capabilities list or link and access rights upon receiving an instruction to delete said application program from the outside.

66. (Original) The program storage device of claim 49 wherein

said capabilities list is encrypted; and

said method further comprises decrypting said capabilities list.

67. (Original) The program storage device of claim 49 wherein

said capabilities list is cryptographically signed by at least one of a provider of said application program and an owner of said one or more resources; and

GUNNISON, McKAY & HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888

said method further comprises cryptographically authenticating said capabilities list.

68. (Original) The program storage device of claim 67, said method further comprising cryptographically authenticating said capabilities list when said capabilities list is stored on said device.

69. (Original) The program storage device of claim 67, said method further comprising cryptographically authenticating said capabilities list when said capabilities list is accessed, said capabilities list being successfully authenticated if a first fingerprint computed over said capabilities list upon storing capabilities list matches a second fingerprint computed over said capabilities list in response to a run-time request to use said capabilities list.

70. (Original) The program storage device of claim 49 wherein said application program comprises a plurality of modules.

71. (Original) The program storage device of claim 49 wherein said application program comprises a Java application program or a Java Card™ applet.

72. (Original) The program storage device of claim 49 wherein said capabilities list is embodied in a tag-length-value (TLV) structure.

73. (Currently Amended) An apparatus for controlling a card device, the card device for communication with an electronic device, the apparatus comprising:

means for storing, on said card device, an application program ~~on said card device~~;

GUNNISON, McKAY & HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888

means for storing, on said card device, a capabilities list associated with said application program ~~on said card device~~, said capabilities list comprising information regarding whether access to one or more resources for use by said application program is permitted; and

means for executing, on said card device, said application program and a security manager,

wherein upon said executing application requesting access to at least one of said one or more resources, said exeucting security manager ~~for~~ selectively grants~~granting~~ access to said at least one of said one or more resources for use by said application program based at least in part on said information in said capabilities list.

74. (Original) The apparatus of claim 73 wherein said one or more resources comprise at least one of data and functions.

75. (Original) The apparatus of claim 73 wherein said one or more resources comprise one or more resources external to said card device.

76. (Original) The apparatus of claim 75 wherein said card device further comprises at least one of:

terminal side resources; and

channels of a communications network.

77. (Original) The apparatus of claim 73 wherein said one or more resources comprise one or more resources owned by at least one of said application program and another entity.

GUNNISON, McKAY & HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888

78. (Original) The apparatus of claim 77 wherein said other entity comprises at least one of:

an operating system of said card device; and

another application program.

79. (Currently Amended) The apparatus of claim 73 wherein said information in said capabilities list comprises information regarding at least one of:

access rights; and

information required for access to a resource.

80. (Currently Amended) The apparatus of claim 73 wherein ~~said information included in said memory stores~~ said capabilities list comprises a first capabilities list and said apparatus further comprises:

means for storing, on said card device, a second capabilities list, said first capabilities list comprising a handle to link to said second capabilities list.

81. (Original) The card device of claim 80 wherein said second capabilities list is associated with one or more of other application programs.

82. (Original) The apparatus of claim 73 wherein said means for executing further comprises said means for requesting access to a resource.

83. (Original) The apparatus of claim 73 wherein said means for executing further comprises:

said application program transmitting a resource access request to said security manager; and

said security manager transmitting a verify request to a verification program to examine said capabilities list to determine whether said application program is authorized to

GUNNISON, McKAY & HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888

access said resource, and performing or denying the requested action based at least in part on said examination.

84. (Original) The apparatus of claim 73 wherein said security manager comprises an application program interface (API).

85. (Original) The apparatus of claim 73 wherein said security manager obtains information regarding said requesting application program through at least one of inquiring at a context originating said resource access request, and a parameter provided with said resource access request.

86. (Original) The apparatus of claim 73, further comprising means for receiving said capabilities list from at least one of a provider of said application program and an owner of said one or more resources.

87. (Original) The apparatus of claim 73 wherein said capabilities list and said application program are comprised by in a load package received by said card device.

88. (Original) The apparatus of claim 73, further comprising means for modifying said capabilities list based at least in part on a subsequently received capabilities update list associated with said application program.

89. (Original) The apparatus of claim 73, further comprising means for deleting said capabilities list or link and access rights upon receiving an instruction to delete said application program from the outside.

90. (Currently Amended) The apparatus of claim 73 wherein

GUNNISON, McKAY & HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888

said capabilities list is encrypted; and

said ~~method~~ apparatus further comprises means for decrypting said capabilities list.

91. (Currently Amended) The apparatus of claim 73 wherein said capabilities list is cryptographically signed by at least one of a provider of said application program and an owner of said one or more resources; and

said ~~method~~ apparatus further comprises means for cryptographically authenticating said capabilities list.

92. (Original) The apparatus of claim 91, further comprising means for cryptographically authenticating said capabilities list when said capabilities list is stored on said device.

93. (Original) The apparatus of claim 91, further comprising means for cryptographically authenticating said capabilities list when said capabilities list is accessed, said capabilities list being successfully authenticated if a first fingerprint computed over said capabilities list upon storing capabilities list matches a second fingerprint computed over said capabilities list in response to a run-time request to use said capabilities list.

94. (Original) The apparatus of claim 73 wherein said application program comprises a plurality of modules

95. (Original) The apparatus of claim 73 wherein said application program comprises a Java application program or a Java Card™ applet.

GUNNISON, McKAY & HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888

96. (Original) The apparatus of claim 73 wherein said capabilities list is embodied in a tag-length-value (TLV) structure.

97. (Cancelled)

98. (Cancelled)

99. (Cancelled).

100. (Cancelled).

GUNNISON, McKAY & HODGSON, L.L.P.
Garden West Office Plaza
1900 Garden Road, Suite 220
Monterey, CA 93940
(831) 655-0880
Fax (831) 655-0888